

Welcome Who We Are **What We Do** Resources How We Work Where We Are Going How We Meet Our Customers' Needs

United States Army  
**Redstone Technical Test Center (RTTC)**

**What We Do**

**Stockpile Reliability and Surveillance Testing**

**Surveillance Testing**

Surveillance Testing has three purposes: 1) assess system safety, reliability, and shelf life by conducting functional testing of fielded tactical hardware; 2) identify and purge unserviceable hardware from inventory, thus increasing readiness and warfighting capability; and 3) provide local commanders the current status of weapons in storage conditions.

**Surveillance Test Program capabilities and attributes:**

- Custom designed and built test sets (tailored to individual weapon systems) for obtaining parametric data to support the weapon system Stockpile Reliability Program
- A fully automated system requiring minimal operator input
- Safe nondestructive functional testing of tactical missiles
- Performs multi-parameter measurements:
  - Electrical
  - Mechanical
  - Optical
- More measurement capability than tactical field test equipment
- Duplicate test systems developed in case of test set related problems
- Physical characteristics inspection performed on each weapon tested

**Features and capabilities of the Surveillance "mobile vehicles:"**

- Test system contained in a low-silhouette motor home type vehicle
- Air Force certified for shipment aboard C-130, C-141, C-5, and C-17 aircraft
- Test equipment designed, mounted, and stored to withstand travel and worldwide weather environments
- Completely self-contained vehicles:
  - On-board gasoline generators
  - AC/DC test and utility power
  - Heating/air conditioning
  - Tools and spare parts for both the vehicle and test set maintenance
  - Weapon System gas storage, control, and distribution
- At Redstone Arsenal, a 60 foot by 140 foot facility with nine vehicle bays for housing vehicles
- Current test systems for Basic and RMP Stinger, Hellfire, Hellfire II, Longbow Hellfire, and Ground Laser Designators



Surveillance van

Surveillance test  
on missileSurveillance  
testing of missile  
in progress

#### Major advantages of Surveillance Testing:

- Can be utilized at both CONUS and OCONUS test sites
- Capable of testing assets of U.S. and Foreign Military Sales (FMS) customers
- Database management of test results allows input to weapon system safety, reliability, and shelf life
- At RTTC, the only in-field capability for complete functional testing of weapon systems

NOTE: See also the Web pages on Portable Surveillance Testing and Shelf Life Component Testing.

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